

CLAIMS

What is claimed is:

- 5 1. Method for transmitting a plurality of information symbols between a first transceiver and a second transceiver by means of modulating a carrier signal,
 - **wherein**
 - a different modulation index (M1, M2, M3, M4) is assigned to each
 - 10 information symbol, and
 - at least one of the characteristic physical variables of the carrier signal is modulated in accordance with the modulation indices (M1, M2, M3, M4).
- 15 2. Method according to claim 1, **wherein**, alongside the frequency and phase, the amplitude (A) is preferably modulated as a characteristic physical variable of the carrier signal.
- 20 3. Method according to claim 1, **wherein** the nth information symbol is transmitted with a time-shift from the (n+1)th information symbol.
4. Method according to claim 2, **wherein** the nth information symbol is transmitted with a time-shift from the (n+1)th information symbol.
- 25 5. Method according to claim 1, **wherein** the nth information symbol is transmitted simultaneously with the (n+x)th information symbol.
6. Method according to claim 2, **wherein** the nth information symbol is transmitted simultaneously with the (n+x)th information symbol.
- 30 7. Method according to claim 1, **wherein** the modulation indices (M1, M2, M3, M4) are also combined with the period length (T0, T1) of a modulation in order to transmit information symbols.

8. Method according to claim 4, **wherein** the modulation indices (M1, M2, M3, M4) are also combined with the period length (T0, T1) of a modulation in order to transmit information symbols.

5

9. Method according to claim 6, **wherein** the modulation indices (M1, M2, M3, M4) are also combined with the period length (T0, T1) of a modulation in order to transmit information symbols.

10

10. Method according to claim 1, **wherein** the first transceiver controls the second transceiver by at least one control signal, for example a clock signal, being assigned to an information symbol.

15

11. Method according to claim 2, **wherein** the first transceiver controls the second transceiver by at least one control signal, for example a clock signal, being assigned to an information symbol.

20

12. Method according to claim 8, **wherein** the first transceiver controls the second transceiver by at least one control signal, for example a clock signal, being assigned to an information symbol.

25

13. Method according to claim 10, **wherein** the control signal for setting the data rate for the data transmission is used by the first transceiver, and the modulation index of the control signal is preferably smaller than the modulation index of the data signal.

30

14. Application according to claim 1, **wherein** said application replaces an electronic circuit for clock generation in the second transceiver preferably in the case of a passive transponder system.

35

15. Application according to claim 2, **wherein** said application replaces an electronic circuit for clock generation in the second transceiver preferably in the case of a passive transponder system.